

30-OCT-09  
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GEORGIA DEPARTMENT OF TRANSPORTATION  
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN  
THE ANALYSIS AND DESIGN OF PIERS FOR BRIDGES - V 4.2.07 - AASHTO SPECS 1984 INTERIM  
REVISED: JUNE 30, 2008  
41' CURB-CURB; 6 BEAMS; 130' SPAN; 40' TALL; BRIDGE 26 ; PIER 12

PROB. NO. 0001

DESIGN NO.	NO. CAN	NO. COL	NO. LLC	SKEW D	ANG M	F'C S	FC PSI	N	FY PSI	FS PSI	DESIGN DATA		CONC.	Z	* * * CAP			REINFORCING STEEL			* * * CAP					
OPTIONS											EC	ES	STRAIN	FACT	MAIN SIZE	STR SIZ	MAX TOP	MAX BOT	MIN TOP	MIN BOT	NO.	CL.	S.SP	INCR.	CL.	
D	D	D	L	2	2	13	0-00-00	3500.	1400.	8.	60000.	24000.	3409.	29000.	0.0030	170.	11	5	15	15	11	2	2.00	4.00	3.00	2.00
COLUMN	REINFORCING	STEEL	R	KL	OC	OF	CM	BD1	BD2	IMPACT	SOIL	WT	ALL.S.P.	MIN	MAX	EDGE	PILE	REBAR	ALL.PILE	ALL.PILE	I					
MIN.P	MAX.P	CL.SP.	CLEAR	MODE	COEF					%	KCF	KSF		PL	SP	DIST	DEPTH	CLEAR	CAPACITY	UPLIFT	P					
1.00	8.00	2.50	3.750	1	2.00	0.75	0.90	0.00	1.00	0.75	18.87	0.120	0.000	3.00	9.00	1.250	1.000	3.000	235.000	-9.999						

CAP DATA

CN	C	L	A	DE	BC	BE	DH	LH	XB1	XB2	XB3	XB4	XB5	XB6	XB7	XB8
11	L	11.000	2.500	4.000	5.500	5.500	2.000	8.500	7.372	4.872						
12	C	22.207	2.500	6.000	5.500		0.000	0.000	2.500	4.902	7.390	4.915				
13	3	SAME AS CANTILEVER 1														

COLUMN DATA

CN	P	I	T	S	HT	A	DT	BT	DB	BB	DL	FLEX	ND	NB	SZ	ND	NB	SZ	ND	NB	SZ	SLOPE	EP	AP			
21	1	C	R		40.000	0.000	5.000	0.000	0.000	0.000	4.000	0.000	19	0	11	19	0	11	42	0	11	42	0	11	0.000	0.000	0.000
22	1	2	SAME AS COLUMN 1																								

FOOTING DATA

CN	S/P	B	D	T	DEL.B	DEL.D	DEL.T	R.B/D	R.D/B	S.HT.	NP	SYM.	BP	DP	SET.
31	P	2.000	2.000	3.000	0.500	0.500	0.250	1.000	1.000	2.500	4	3	0.000	0.000	0.000

32 2 SAME AS FOOTING 1

GROUP II WIND																
WIND ON SUPERSTRUCTURE INTENSITIES																
TRANS.	LONG.	WIND	FT1	FL1	FT2	FL2	FT3	FL3	FT4	FL4	FT5	FL5	* WIND FORCE	ARM	* WIND ON PIER	
		APTD											APT	APL	PT	PL
1263.	2525.	1	50	0	44	6	41	12	33	16	17	19	7.375	7.375	1.287	23.210

GROUP III WIND																									
WIND ON LIVE LOAD INTENSITIES																									
WIND	FT1	FL1	FT2	FL2	FT3	FL3	FT4	FL4	FT5	FL5	* WIND ON LL	* WIND ON LL	APTD	APL											
TRANS.	LONGI.										APTD	APL													
1	50	0	44	6	41	12	33	16	17	19	1	100	0	88	12	82	24	66	32	34	38	129.5	259.0	15.583	15.583

MISCELLANEOUS FORCES									
CENTRI.	TRACTION	FORCE	AND	EXPANSION	SHRINKAGE	STREAM	FLOW		
FT	FL	APT	ARMS	COEFFICIENT	COEFFICIENT	PT	PL		
0.000	9.188	15.583	15.583	0.00018000	0.00044000	0.000	0.000		

DEAD LOAD SUPERSTRUCTURE AND LIVE LOAD CASES

I.D.	NL	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
D.L.	0	248.707	0.000	283.767	0.000	283.767	283.767	0.000	283.767	0.000	248.707		
LL 1	1	77.528	0.000	52.935	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
LL 2	2	77.528	0.000	95.155	0.000	77.501	10.742	0.000	0.000	0.000	0.000		
LL 3	3	77.528	0.000	95.155	0.000	96.682	88.244	0.000	33.781	0.000	0.000		
LL 4	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	52.927	0.000	77.536		
LL 5	2	0.000	0.000	0.000	0.000	10.733	77.501	0.000	95.155	0.000	77.536		
LL 6	3	0.000	0.000	33.772	0.000	88.235	96.691	0.000	95.155	0.000	77.536		
LL 7	1	0.000	0.000	26.481	0.000	77.501	26.481	0.000	0.000	0.000	0.000		
LL 8	2	49.519	0.000	103.982	0.000	80.944	26.481	0.000	0.000	0.000	0.000		
LL 9	3	49.519	0.000	103.982	0.000	84.386	103.982	0.000	49.519	0.000	0.000		
LL10	2	0.000	0.000	38.000	0.000	92.463	92.463	0.000	38.000	0.000	0.000		
LL11	3	69.115	0.000	99.348	0.000	92.463	92.463	0.000	38.000	0.000	0.000		
LL12	2	77.528	0.000	52.935	0.000	0.000	0.000	0.000	52.927	0.000	77.536		
LL13	3	77.528	0.000	95.155	0.000	77.501	10.742	0.000	52.927	0.000	77.536		

COLUMN MOMENTS(KIP- FEET), SHEARS(KIPS), REACTIONS(KIPS)

TRANSVERSE										* LONGITUDINAL		
LOAD	COL	PC	MT	V	MB	RF	ML	MR	MT	V	MB	MF
UNIT F.AT CL.CAP	1	0.876	9.721	0.500	10.279	0.876	0.000	-9.721	2.000	0.500	20.000	20.000
	2	-0.876	9.721	0.500	10.279	-0.876	-9.721	0.000	2.000	0.500	20.000	20.000
EXPANSION OF CAP	1	0.000	83.980	4.560	98.428	0.000	0.000	-83.980	0.000	0.000	0.000	0.000
	2	0.000	-83.980	-4.560	-98.428	0.000	83.980	0.000	0.000	0.000	0.000	0.000
SHRINKAGE OF CAP	1	0.000	-205.284	-11.147	-240.602	0.000	0.000	205.284	0.000	0.000	0.000	0.000
	2	0.000	205.284	11.147	240.602	0.000	-205.284	0.000	0.000	0.000	0.000	0.000

PIER-41-6-130-40.OUT												
LOAD	COL	PC	MT	V	MB	RF	ML	MR	MT	V	MB	MF
DEAD LOAD TOTAL	1	918.808	-120.639	-4.525	-60.345	1024.837	2075.674	-1955.035	0.000	0.000	0.000	0.000
	2	1024.837	120.674	4.525	60.311	1024.502	1955.000	-2075.674	0.000	0.000	0.000	0.000
		918.473										
		1024.502										
TRAC. FORCE 1 LN	1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-89.964	-4.594	-255.348	-255.348
	2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-89.964	-4.594	-255.348	-255.348
WIND ON SUBSTR.	1	1.127	12.511	0.643	13.229	1.127	0.000	-12.511	-46.420	-11.605	-464.200	-464.200
	2	-1.127	12.511	0.643	13.229	-1.127	-12.511	0.000	-46.420	-11.605	-464.200	-464.200
GROUP 2 WIND 1 1	1	77.388	626.408	32.219	662.332	77.388	0.000	-626.408	-46.420	-11.605	-464.200	-464.200
	2	-77.388	626.408	32.219	662.332	-77.388	-626.408	0.000	-46.420	-11.605	-464.200	-464.200
GROUP 2 WIND 1 2	1	77.388	626.408	32.219	662.332	77.388	0.000	-626.408	46.420	11.605	464.200	464.200
	2	-77.388	626.408	32.219	662.332	-77.388	-626.408	0.000	46.420	11.605	464.200	464.200
GROUP 2 WIND 2 1	1	68.236	552.740	28.429	584.439	68.236	0.000	-552.740	-132.586	-19.180	-823.066	-823.066
	2	-68.236	552.740	28.429	584.439	-68.236	-552.740	0.000	-132.586	-19.180	-823.066	-823.066
GROUP 2 WIND 2 2	1	68.236	552.740	28.429	584.439	68.236	0.000	-552.740	132.586	19.180	823.066	823.066
	2	-68.236	552.740	28.429	584.439	-68.236	-552.740	0.000	132.586	19.180	823.066	823.066
GROUP 2 WIND 3 1	1	63.661	515.907	26.535	545.493	63.661	0.000	-515.907	-218.751	-26.755	-1181.931	-1181.931
	2	-63.661	515.907	26.535	545.493	-63.661	-515.907	0.000	-218.751	-26.755	-1181.931	-1181.931
GROUP 2 WIND 3 2	1	63.661	515.907	26.535	545.493	63.661	0.000	-515.907	218.751	26.755	1181.931	1181.931
	2	-63.661	515.907	26.535	545.493	-63.661	-515.907	0.000	218.751	26.755	1181.931	1181.931
GROUP 2 WIND 4 1	1	51.459	417.683	21.483	441.637	51.459	0.000	-417.683	-276.195	-31.805	-1421.175	-1421.175
	2	-51.459	417.683	21.483	441.637	-51.459	-417.683	0.000	-276.195	-31.805	-1421.175	-1421.175
GROUP 2 WIND 4 2	1	51.459	417.683	21.483	441.637	51.459	0.000	-417.683	276.195	31.805	1421.175	1421.175
	2	-51.459	417.683	21.483	441.637	-51.459	-417.683	0.000	276.195	31.805	1421.175	1421.175
GROUP 2 WIND 5 1	1	27.055	221.236	11.379	233.924	27.055	0.000	-221.236	-319.278	-35.592	-1600.608	-1600.608
	2	-27.055	221.236	11.379	233.924	-27.055	-221.236	0.000	-319.278	-35.592	-1600.608	-1600.608
GROUP 2 WIND 5 2	1	27.055	221.236	11.379	233.924	27.055	0.000	-221.236	319.278	35.592	1600.608	1600.608
	2	-27.055	221.236	11.379	233.924	-27.055	-221.236	0.000	319.278	35.592	1600.608	1600.608
GROUP 3 WIND 1 1	1	43.641	313.813	16.141	331.809	43.641	0.000	-313.813	-13.926	-3.481	-139.260	-139.260
	2	-43.641	313.813	16.141	331.809	-43.641	-313.813	0.000	-13.926	-3.481	-139.260	-139.260

□ COLUMN MOMENTS (KIP-FEET), SHEARS (KIPS), REACTIONS (KIPS)

LOAD	COL	TRANSVERSE							LONGITUDINAL			
		PC	MT	V	MB	RF	ML	MR	MT	V	MB	MF
GROUP 3 WIND 1 2	1	43.641	313.813	16.141	331.809	43.641	0.000	-313.813	13.926	3.481	139.260	139.260
	2	-43.641	313.813	16.141	331.809	-43.641	-313.813	0.000	13.926	3.481	139.260	139.260
GROUP 3 WIND 2 1	1	38.445	276.606	14.227	292.469	38.445	0.000	-276.606	-70.208	-7.308	-333.296	-333.296
	2	-38.445	276.606	14.227	292.469	-38.445	-276.606	0.000	-70.208	-7.308	-333.296	-333.296
GROUP 3 WIND 2 2	1	38.445	276.606	14.227	292.469	38.445	0.000	-276.606	70.208	7.308	333.296	333.296
	2	-38.445	276.606	14.227	292.469	-38.445	-276.606	0.000	70.208	7.308	333.296	333.296
GROUP 3 WIND 3 1	1	35.847	258.002	13.270	272.798	35.847	0.000	-258.002	-126.489	-11.134	-527.331	-527.331
	2	-35.847	258.002	13.270	272.798	-35.847	-258.002	0.000	-126.489	-11.134	-527.331	-527.331
GROUP 3 WIND 3 2	1	35.847	258.002	13.270	272.798	35.847	0.000	-258.002	126.489	11.134	527.331	527.331
	2	-35.847	258.002	13.270	272.798	-35.847	-258.002	0.000	126.489	11.134	527.331	527.331
GROUP 3 WIND 4 1	1	28.918	208.392	10.718	220.344	28.918	0.000	-208.392	-164.010	-13.686	-656.688	-656.688
	2	-28.918	208.392	10.718	220.344	-28.918	-208.392	0.000	-164.010	-13.686	-656.688	-656.688
GROUP 3 WIND 4 2	1	28.918	208.392	10.718	220.344	28.918	0.000	-208.392	164.010	13.686	656.688	656.688
	2	-28.918	208.392	10.718	220.344	-28.918	-208.392	0.000	164.010	13.686	656.688	656.688
GROUP 3 WIND 5 1	1	15.061	109.174	5.615	115.434	15.061	0.000	-109.174	-192.151	-15.599	-753.706	-753.706
	2	-15.061	109.174	5.615	115.434	-15.061	-109.174	0.000	-192.151	-15.599	-753.706	-753.706
GROUP 3 WIND 5 2	1	15.061	109.174	5.615	115.434	15.061	0.000	-109.174	192.151	15.599	753.706	753.706
	2	-15.061	109.174	5.615	115.434	-15.061	-109.174	0.000	192.151	15.599	753.706	753.706
LIVE LOAD LL 1	1	155.482	-81.123	-2.743	-28.613	155.482	571.536	-490.413	0.000	0.000	0.000	0.000
	2	-25.019	65.192	2.743	44.545	-25.019	-65.192	0.000	0.000	0.000	0.000	0.000
LIVE LOAD LL 2	1	253.096	-23.847	-0.653	-2.272	253.096	571.536	-547.690	0.000	0.000	0.000	0.000
	2	7.830	10.978	0.653	15.141	7.830	-10.978	0.000	0.000	0.000	0.000	0.000
LIVE LOAD LL 3	1	262.477	32.341	1.475	26.656	262.477	514.383	-546.724	0.000	0.000	0.000	0.000
	2	89.774	-46.322	-1.475	-12.675	89.774	46.322	0.000	0.000	0.000	0.000	0.000
LIVE LOAD LL 4	1	-25.022	-65.199	-2.744	-44.549	-25.022	0.000	65.199	0.000	0.000	0.000	0.000
	2	155.485	81.132	2.744	28.616	155.485	490.464	-571.595	0.000	0.000	0.000	0.000
LIVE LOAD LL 5	1	7.874	-10.948	-0.652	-15.135	7.874	0.000	10.948	0.000	0.000	0.000	0.000
	2	253.051	23.829	0.652	2.254	253.051	547.767	-571.595	0.000	0.000	0.000	0.000
LIVE LOAD LL 6	1	89.859	46.330	1.475	12.664	89.859	0.000	-46.330	0.000	0.000	0.000	0.000
	2	262.391	-32.328	-1.475	-26.665	262.391	546.764	-514.436	0.000	0.000	0.000	0.000
LIVE LOAD LL 7	1	87.097	66.867	2.464	31.677	87.097	0.000	-66.867	0.000	0.000	0.000	0.000
	2	43.366	-64.525	-2.464	-34.019	43.366	64.525	0.000	0.000	0.000	0.000	0.000
LIVE LOAD LL 8	1	232.400	17.306	0.793	14.409	232.400	365.054	-382.360	0.000	0.000	0.000	0.000
	2	28.526	-24.981	-0.793	-6.734	28.526	24.981	0.000	0.000	0.000	0.000	0.000
LIVE LOAD LL 9	1	234.378	60.105	2.441	37.519	234.378	328.549	-388.654	0.000	0.000	0.000	0.000
	2	117.871	-70.061	-2.441	-27.564	117.871	70.061	0.000	0.000	0.000	0.000	0.000

□ COLUMN MOMENTS (KIP-FEET), SHEARS (KIPS), REACTIONS (KIPS)

TRANSVERSE \* LONGITUDINAL

LOAD	COL	PIER-41-6-130-40.OUT											
		PC	MT	V	MB	RF	ML	MR	MT	V	MB	MF	
LIVE LOAD LL10	1	130.518	116.867	4.382	58.425	130.518	0.000	-116.867	0.000	0.000	0.000	0.000	0.000
	2	130.408	-116.856	-4.382	-58.436	130.408	116.856	0.000	0.000	0.000	0.000	0.000	0.000
LIVE LOAD LL11	1	254.956	40.092	1.743	29.625	254.956	458.564	-498.656	0.000	0.000	0.000	0.000	0.000
	2	97.294	-52.865	-1.743	-16.853	97.294	52.865	0.000	0.000	0.000	0.000	0.000	0.000
LIVE LOAD LL12	1	130.460	-146.322	-5.487	-73.162	130.460	571.536	-425.214	0.000	0.000	0.000	0.000	0.000
	2	130.466	146.324	5.487	73.161	130.466	425.272	-571.595	0.000	0.000	0.000	0.000	0.000
LIVE LOAD LL13	1	205.266	-80.141	-3.057	-42.139	205.266	514.383	-434.242	0.000	0.000	0.000	0.000	0.000
	2	146.984	82.898	3.057	39.381	146.984	431.537	-514.436	0.000	0.000	0.000	0.000	0.000

CAP ANALYSIS AND DESIGN DATA

POINT	MOMENTS (KIP- FEET)								SHEARS (KIPS)							
	D.L. TOT.	G1 MAX.+	G1 MAX.-	G2 MAX.+	G2 MAX.-	G3 MAX.+	G3 MAX.-	DL T.LT	DL T.RT	G1 + LT	G1 + RT	G1 - LT	G1 - RT			
P 1	-30.242	-30.242	-30.242	-30.242	-30.242	-30.242	-30.242	-17.225	-340.544	-17.225	-340.544	-17.225	-508.857			
P 2	-1756.016	-1756.016	-2576.039	-1756.016	-1756.016	-1756.016	-2247.048	-368.900	-368.900	-368.900	-368.900	-537.214	-537.214			
C 1L	-2698.376	-2698.376	-3939.182	-2698.376	-2698.376	-2698.376	-3441.374	-384.988		-384.988		-553.301				
C 1R	-2541.545	-2399.999	-3730.580	-1727.215	-3355.876	-2048.831	-3661.499		440.566		672.999		386.243			
P 4	-1460.239	-1211.819	-2389.133	-829.259	-2091.220	-995.381	-2332.567	424.479	424.479	656.911	656.911	370.156	370.156			
P 5	543.239	1776.255	-379.943	814.707	271.771	1417.570	-145.562	392.934	24.037	625.367	78.354	338.612	-30.286			
P 6	545.159	1779.051	-378.065	815.673	274.644	1419.537	-143.190	-23.518	-392.415	30.799	-338.098	-77.840	-624.645			
P 7	-1461.285	-1213.433	-2390.275	-830.305	-2092.266	-996.768	-2333.670	-424.043	-424.043	-369.726	-369.726	-656.273	-656.273			
C 2L	-2541.500	-2399.969	-3730.702	-1727.170	-3355.831	-2048.795	-3661.554	-440.130		-385.813		-672.360				
C 2R	-2698.376	-2698.376	-3939.310	-2698.376	-2698.376	-2698.376	-3441.451		384.988		553.318		384.988			
P 9	-1756.016	-1756.016	-2576.124	-1756.016	-1756.016	-1756.016	-2247.098	368.900	368.900	537.231	537.231	368.900	368.900			
P10	-30.242	-30.242	-30.242	-30.242	-30.242	-30.242	-30.242	340.544	17.225	508.875	17.225	340.544	17.225			

PT.	UNF.		REINFORCE.		REINFORCE.		CAP DESIGN DATA				D IN.	FC PSI	PS %	FS/FF RATIO	FS/FZ RATIO	
	M+ K-FT.	M- K-FT.	TOP AS	NO. SIZE	BOT. AS	NO. SIZE	M.SP.	AV/IN	LEFT STIRRUPS BAR&SPAC	RIGHT STIRRUPS BAR&SPAC						
P 1	-23.263	-23.263	3.12	2 # 11	3.12	2 # 11	0.00	0.000	#5@ 0.00	24.00	0.055	#5@11.27	58.25	0.09	0.000	0.090
P 2	-1350.782	-1728.498	8.50	6 # 11	3.12	2 # 11	24.00	0.055	#5@11.27	24.00	0.055	#5@11.27	72.00	0.19	0.514	1.254
C 1	-1889.836	-2647.211	13.12	9 # 11	3.12	2 # 11	24.00	0.055	#5@11.27	24.00	0.062	#5@10.00	72.00	0.31	0.671	1.131
P 4	-1008.834	-1551.126	8.34	6 # 11	3.12	2 # 11	24.00	0.057	#5@10.80	24.00	0.057	#5@10.80	72.00	0.18	0.639	1.125
P 5	985.825	-7.357	3.12	2 # 11	7.77	5 # 11	24.00	0.055	#5@11.27	0.00	0.000	#5@ 0.00	72.00	0.17	2.442	0.000
P 6	987.705	-5.900	3.12	2 # 11	7.78	5 # 11	0.00	0.000	#5@ 0.00	24.00	0.055	#5@11.27	72.00	0.17	2.447	0.000
P 7	-1009.901	-1551.974	8.34	6 # 11	3.12	2 # 11	24.00	0.057	#5@10.83	24.00	0.057	#5@10.83	72.00	0.18	0.639	1.126
C 2	-1889.809	-2647.270	13.12	9 # 11	3.12	2 # 11	24.00	0.062	#5@10.03	24.00	0.055	#5@11.27	72.00	0.31	0.671	1.131
P 9	-1350.782	-1728.537	8.50	6 # 11	3.12	2 # 11	24.00	0.055	#5@11.27	24.00	0.055	#5@11.27	72.00	0.19	0.514	1.254
P10	-23.263	-23.263	3.12	2 # 11	3.12	2 # 11	24.00	0.055	#5@11.27	0.00	0.000	#5@ 0.00	58.25	0.09	0.000	0.090

NOTE: \*\*\* FS/FZ RATIO EXCEEDS 1.0! \*\*\*

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COLUMN ANALYSIS AND DESIGN OUTPUT

CN	T B	CRITICAL COLUMN LOADS												B	D				
		GR	LLC	WC R	E S	C F	S F	PF	MTF	MLF	PM	MTM	MLM			PU	MTU	MLU	PU/PM
1	T	1	LL 3	0.0				1764.3	-86.6	0.0	1764.3	502.3	700.5	5689.1	1620.8	2260.2	3.225	60.00	60.00
1	B	2		5.1				1367.5	225.7	-2080.8	1367.5	368.5	2820.7	2200.3	593.1	4539.7	1.609	60.00	60.00
2	T	1	LL 6	0.0				1763.7	86.7	0.0	1763.7	502.2	700.1	5689.3	1620.9	2259.8	3.226	60.00	60.00
2	B	2		5.1	R			1367.0	-225.7	2080.8	1367.0	368.4	2820.4	2199.9	592.9	4539.6	1.610	60.00	60.00

CN	T B	COLUMN DESIGN DATA															
		FACE 1 NO. SIZE	FACE 2 NO. SIZE	FACE 3 NO. SIZE	FACE 4 NO. SIZE	AS	PS	BD12	BD	SUMPU	SUMPC	DEL.T	DEL.L	CM	R	PHIC	
1	T	19 # 11	0 # 0	0 # 0	0 # 0	29.64	1.048	1.00	0.407	3291.	26984.	1.139	1.588	1.000	1	0.75	
1	B	19 # 11	0 # 0	0 # 0	0 # 0	29.64	1.048	1.00	0.000	2526.	34957.	1.078	1.356	1.000	1	0.75	
2	T	19 # 11	0 # 0	0 # 0	0 # 0	29.64	1.048	1.00	0.407	3291.	26985.	1.139	1.588	1.000	1	0.75	
2	B	19 # 11	0 # 0	0 # 0	0 # 0	29.64	1.048	1.00	0.000	2526.	34957.	1.078	1.355	1.000	1	0.75	

FOOTING 1 DESIGN LOADS

F G	LLID	WC	ES	C S	P	MT	VT	ML	VL	P4	P3	P2	P1	MTF	VBF	VPF	LOAD
1	3	LL 3	5.1R		1230.586	-153.355	-8.899	1443.147	28.003	252.535	82.851	112.860	282.544	34.938	-0.237	17.891	MAX.P1

PIER-41-6-130-40.OUT

1	3	LL	3	5.1R	1599.762	-199.362	-11.569	1876.091	36.403	328.296	107.707	146.718	367.307	45.420	-0.308	23.259	MAX.MT
2	2			5.1R	1367.025	-225.696	-8.911	2080.790	46.270	306.534	59.912	101.983	348.606	39.565	-0.308	19.812	MAX.VT
1	3	LL	3	5.1	1638.921	100.768	3.031	-1876.091	-36.403	344.240	123.651	141.962	362.551	44.542	-0.308	23.839	MAX.VP
1	3	LL	3	5.1	1638.921	100.768	3.031	-1876.091	-36.403	344.240	123.651	141.962	362.551	95.823	-0.308	23.839	MAX.ML
2	2			5.1R	1367.025	-225.696	-8.911	2080.790	46.270	306.534	59.912	101.983	348.606	88.673	-0.308	19.812	MAX.VL
2	2			5.1	997.446	294.235	15.904	-1600.608	-35.592	215.751	26.042	83.033	272.742	31.281	-0.237	14.438	MAX.P3

FOOTING 1 ANALYSIS/DESIGN RESULTS

FOOTING SIZE			* BAR REINFORCEMENT STEEL *						SECTION CAPACITIES *			
B	D	T	P1/PA	AS	NO.SIZE	SPAC.	PLACEMENT	MT.	VB	VP	DS	FC
8.500	8.500	3.000	0.962	0.59	17 # 5 @	6.000	TOP TRAN	53.475	23.760	47.521	19.688	0.000
				1.09	12 # 8 @	8.500	BOT.LONG	98.182	24.741	49.482	20.500	0.000

NUMBER OF PILES = 7 BP = 3.000 DP = 3.000

FOOTING 2 DESIGN SAME AS FOOTING 1